

Finding the Product With FOIL
 (Practice Sheet)

Name _____

Find the product using FOIL. Write your answers in simplest form.

1. 

$$(2x + 3)(x + 2) = 2x(x + 2) + 3(x + 2) = 2x^2 + 4x + 3x + 6 = 2x^2 + 7x + 6$$

2. $(x + 2)(x + 2) = x^2 + 4x + 4$

3. $(x + 3)(x + 4) = x^2 + 7x + 12$

4. $(2x + 3)(x + 2) = 2x^2 + 7x + 6$

5. $(2x + 1)(x + 3) = 2x^2 + 7x + 3$

6. $(3x + 2)(x + 2) = 3x^2 + 8x + 4$

Use the distributive to find the product of opposite binomials.

7. $(3x + 2)(3x - 2) = 9x^2 - 4$

8. $(4x + 3)(4x - 3) = 16x^2 - 9$

Use the square of a binomial method to find the product.

9. $(x + 3)^2 = x^2 + 6x + 9$

10. $(x - 7)^2 = x^2 - 14x + 49$

11. $(y + 6)^2 = y^2 + 12y + 36$

12. $(3x - 4)^2 = 9x^2 - 24x + 16$